VITEK

VITEK®
INDUSTRIAL VIDEO PRODUCTS, INC.

Alpha Series Vandal Resistant High Resolution WDR Dome Cameras

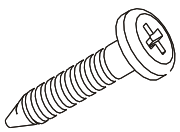
alpha series By VITEK

- 620 TV Lines of Resolution
- Hercules DSP Engine
- 1/3" Sony SuperHAD II CCD
- 3.6mm Fixed and 2.8~12mm IR Corrected DC Auto-Iris Lens Options
- Available with 35 IR LEDs (120' Range)
- Advanced OSD Functions: WDR, 3D DNR, DSS, DIS, Sens-up, Motion Detection, Privacy
- IP68 Waterproof Rated
- Secondary Video Output with Cable Included
- 3-Axis Mount for Optimum Viewing Angle
- Dual Voltage 12VDC/24VAC Operation

BOX CONTENTS

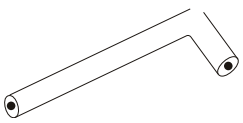
1) Dome Camera
2) Mounting Accessories
3) This instruction Manual & Mounting Template

BOX CONTENTS

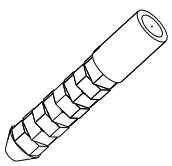


Self Tapping Screws
For attaching the housing base to a solid surface.
Type #: Phillips ST4x30
Qty: 4

Secondary Video Output Cable
To be used with a service monitor for adjusting the angle, focus and zoom.
Qty: 1



Torx Wrench
Type #: T20
Length: 63mm / Diameter: 4mm
Qty: 1



Dowels
If necessary, use the dowels help secure the self tapping screws.
Length: 30mm / Diameter: 7mm
Qty: 4

Hex Wrench
If necessary, use the wrench to help secure the surface mount.
Qty: 1

Conduit Plug
Qty: 1

AVAILABLE MODELS / ACCESSORIES

VTD-A4F/VW
Vandal Resistant High Resolution WDR Dome Camera with White Base.

VTD-A4F/VB
Vandal Resistant High Resolution WDR Dome Camera with Black Base.

VTD-A2812/VW
Vandal Resistant High Resolution WDR Varifocal Dome Camera with White Base.

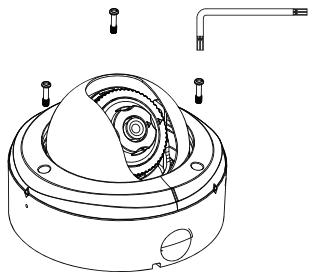
VTD-A2812/VB
Vandal Resistant High Resolution WDR Varifocal Dome Camera with Black Base.

VTD-AR2812/VW
Vandal Resistant High Resolution Infrared WDR Varifocal Dome Camera with White Base.

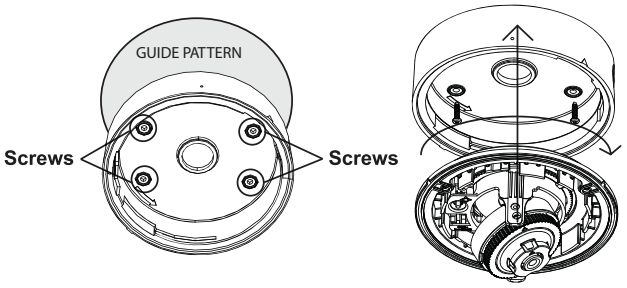
VTD-AR2812/VB
Vandal Resistant High Resolution Infrared WDR Varifocal Dome Camera with Black Base.

VTD-A4F/V INSTALLATION

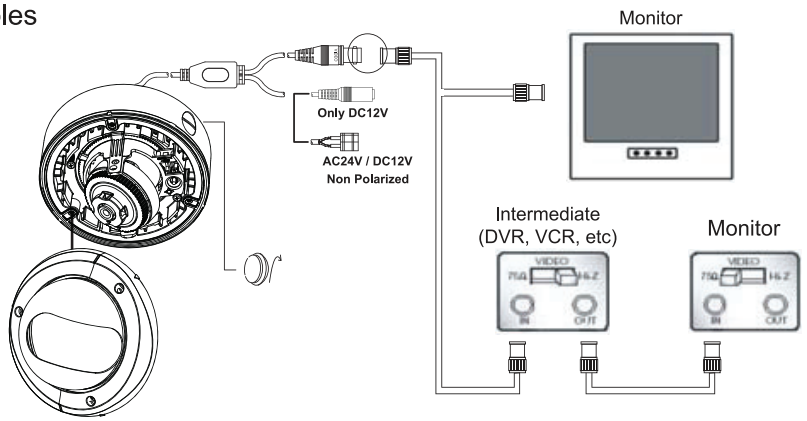
1. Opening
   Use the allen wrench to open the cover.



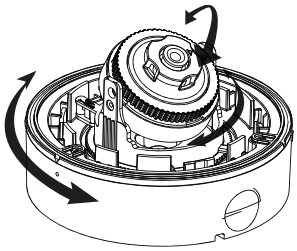
2. Place the camera in the desired location
   and install using the screws supplied.



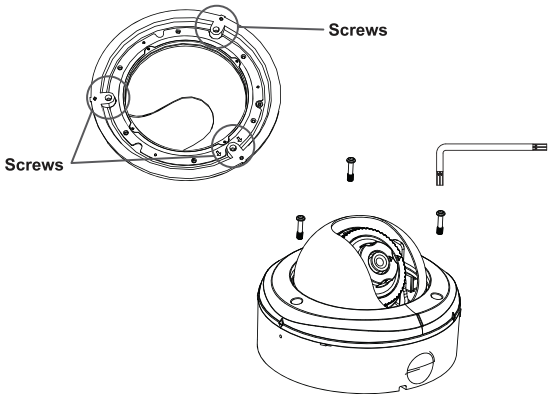
3. Connecting Cables



4. Pan / Tilt (3Axis) Controls

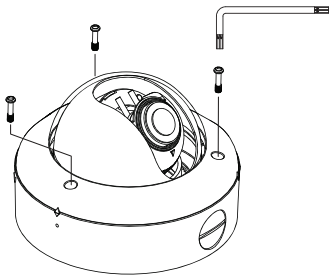


5. Use the allen wrench to close the cover.

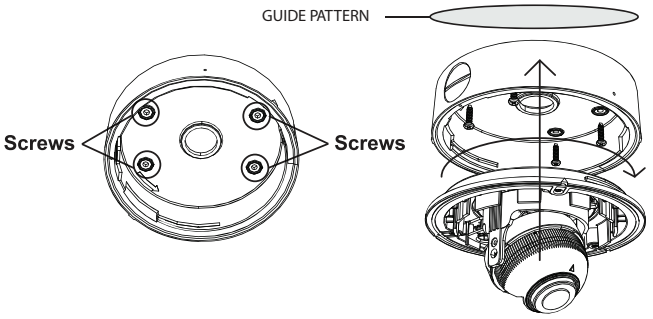


VTD-A2812/V INSTALLATION

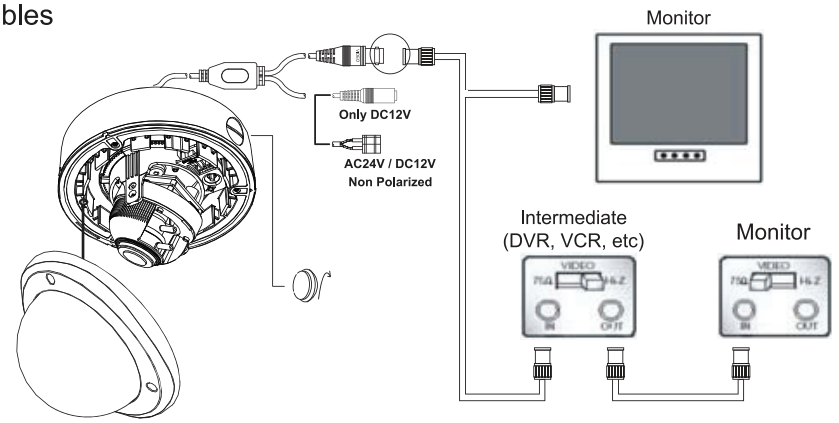
1. Opening
   Use the allen wrench to open the cover.



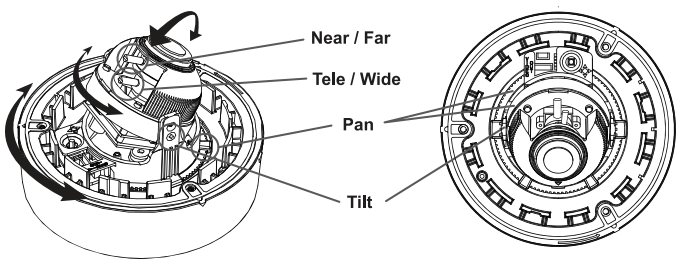
2. Place the camera in the desired location
   and install using the screws supplied.



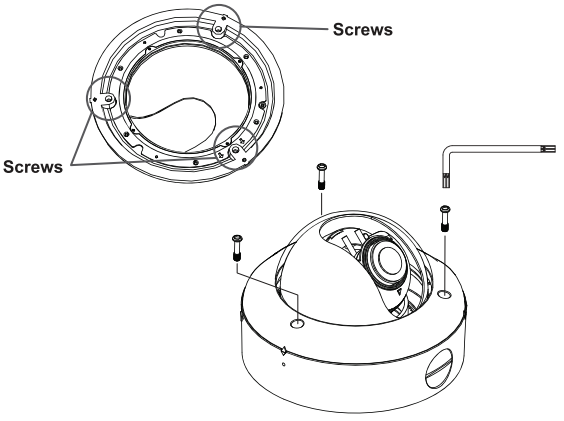
3. Connecting Cables



4. Pan/Tilt & Focus Controls

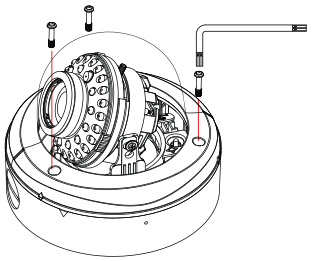


5. Use the allen wrench to close the cover.

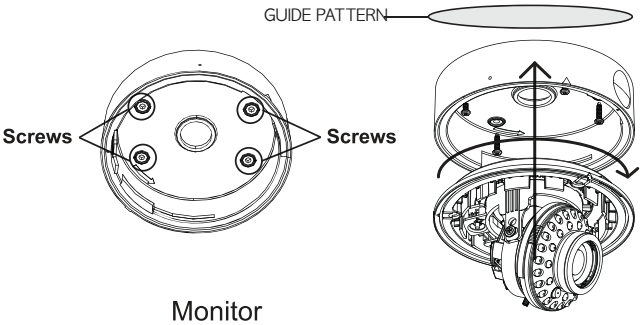


VTD-AR2812/V INSTALLATION

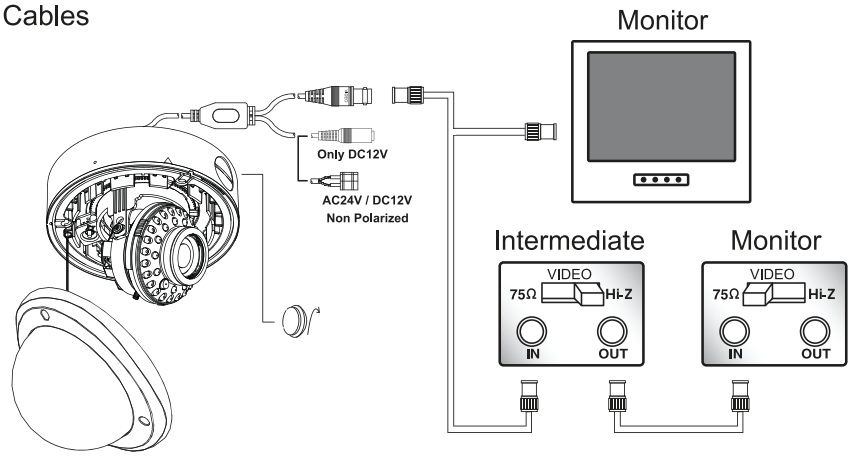
1. Opening
   Use the allen wrench to open the cover.



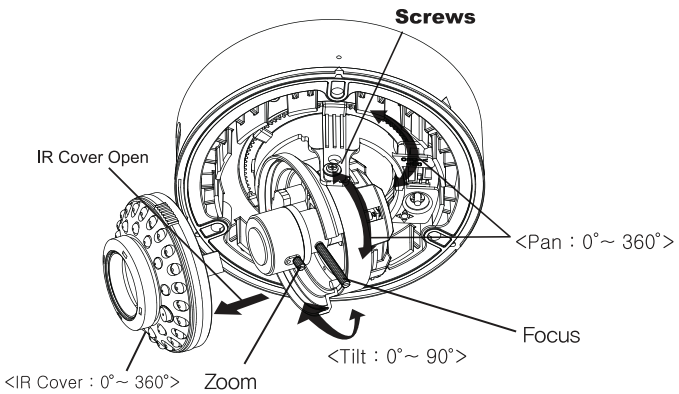
2. Place the camera in the desired location
   and install using the screws supplied.



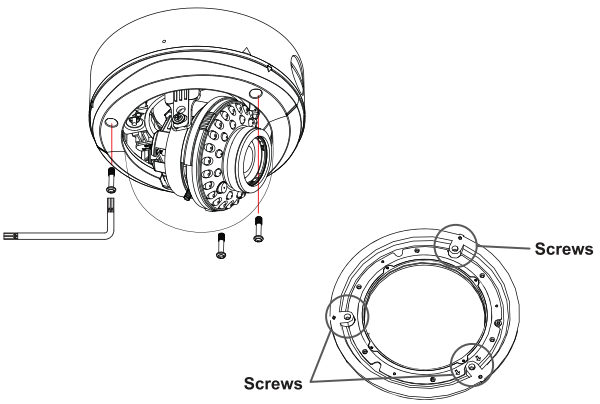
3. Connecting Cables



4. Pan/Tilt & Focus Controls

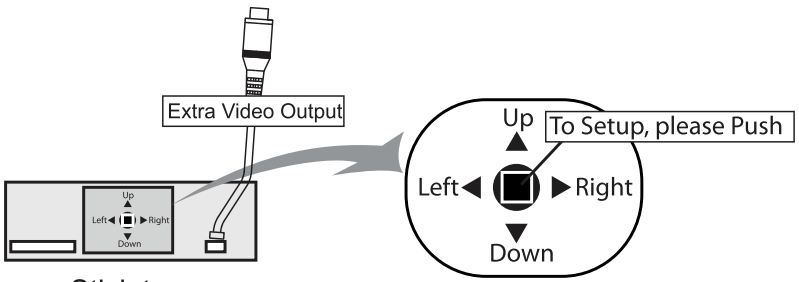


5. Use the allen wrench to close the cover.



✷ *Settings*

Settings can be changed by pushing or pressing the joystick or button.



<Stick type>

1. Please press the SETUP button

   - Settings can now be made. The SETUP menu is displayed on the monitor.

2. Please select any function you wish to activate by pushing the joystick Up or Down

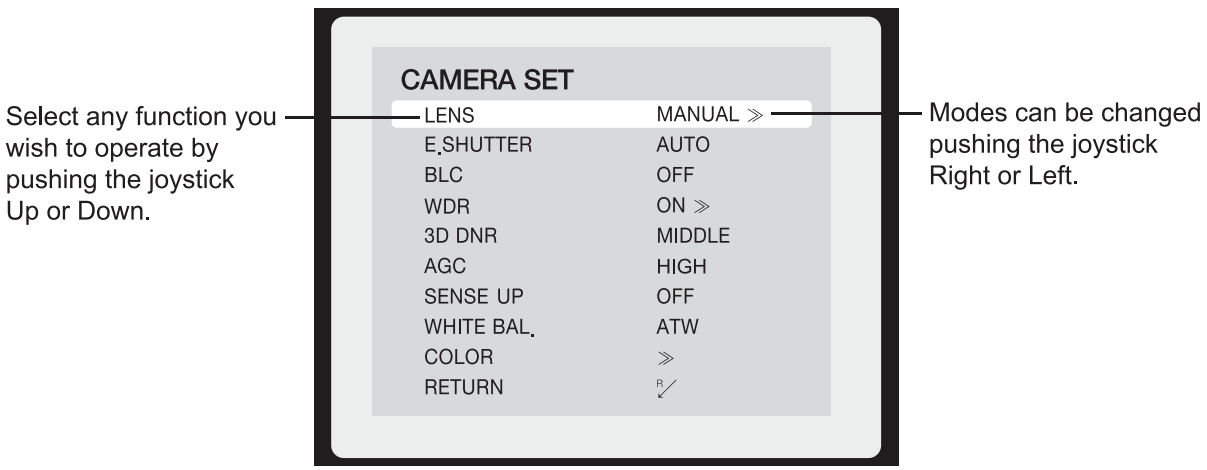
   - The cursor position will appear green on your screen.
     You can push the joystick Up or Down to change function you wish to change.

OSD OPERATION

OSD MENU TREE

CAMERA SET	LENS	E.SHUTTER	BLC
	WDR	3D DNR	AGC
	SENS UP	WHITE BAL	COLOR
	RETURN		
DAY/NIGHT	D&N MODE	BURST	DAY➡NIGHT
	NIGHT➡DAY	IR CTRL (Option)	DELAY TIME
	RETURN		
FUNCTION	MIRROR	SHARPNESS	GAMMA
	FREEZE	NEGA	D-ZOOM
	RETURN		
INTELLIGENCE	LSC	HLM	DIS
	MOTION	SYNC MODE	RETURN
PRIVACY	MASK1	MASK2	MASK3
	MASK4	MASK5	MASK6
	RETURN		
SETUP	ID	ID DISPLAY	LANGUAGE
	TITLE	COM	RETURN
EXIT	SAVE&EXIT	EXIT	FACTORY SET
	RETURN		

OSD OPERATION



3. Please push the joystick Right or Left if you wish to change mode.
   - When the joystick is pushed Right or Left, available values and modes are displayed in order. Please keep pushing the joystick until you get to the mode you wish to operate.

4. Please select 'EXIT' and then press the joystick to finish the setting.

Note

- If R↙ appears at the mode you wish to operate, it means that there is a sub-menu which can be selected by pressing the joystick.

CAMERA SET

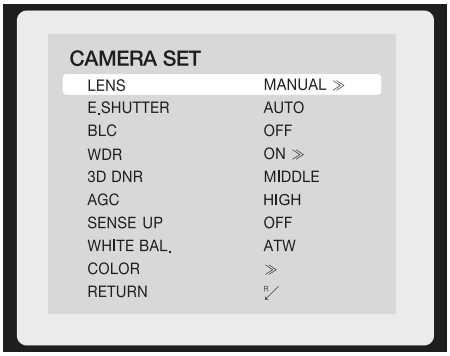
LENS, E.SHUTTER, BLC, WDR, 3D DNR AGC, SENS UP, WHITE BAL, COLOR control can be selected.

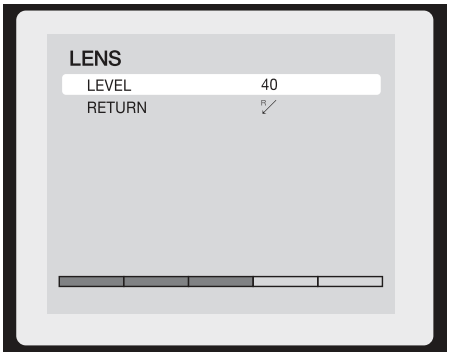
- When the MAIN MENU is on the screen, please position the cursor to 'CAMERA SET' by using the joystick. And then press the joystick.

OSD OPERATION

1. LENS

• ‘MANUAL’ menu for fixed lens models, ‘DC’ menu for auto iris models.

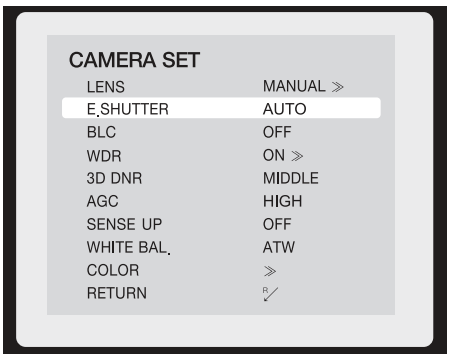




• If you press the SET button in ‘MANUAL’ or ‘DC’ mode, You can adjust brightness by increasing or decreasing the LEVEL.

2. E. SHUTTER

• You can select either auto or manual shutter.



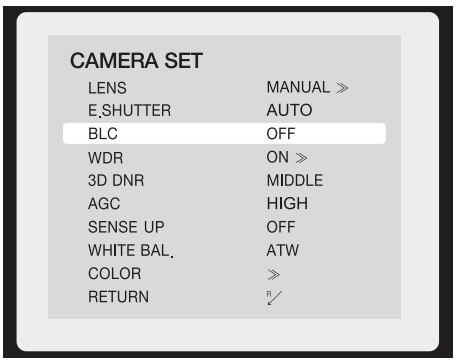
You can control shutter speed manually.

-DC IRIS LENS: 1/60 (1/50) ~ 1/100000 Adjustable
-MANUAL LENS: AUTO, 1/60 (1/50) ~ 1/100000 Adjustable

1/100FLC: (1/120FLC) Select this when you experience picture flicker, which can happen when there is a clash with the frequency of the installed lighting.

3. BLC (Backlight Compensation)

• When there is a strong backlight behind the object, clear images of the background as well as the object can still be obtained by using the BLC function.

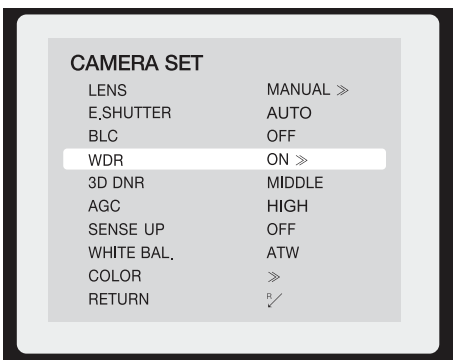


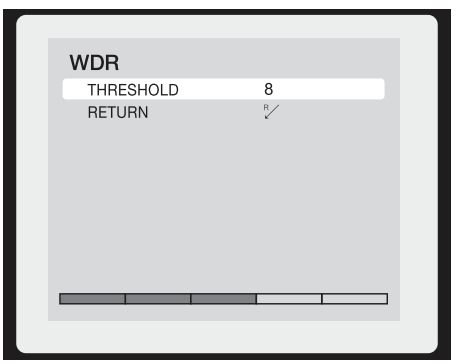
- OFF : BACKLIGHT function does not operate.

- LOW / MIDDLE / HIGH
  : You can select ‘LOW’ , ‘MIDDLE’ or ‘HIGH’ menu as backlight condition.

4. WDR (Long and Short exposure)

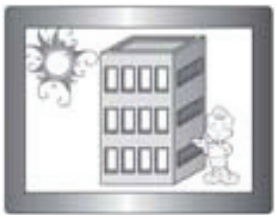
• The Wide Dynamic Range feature improves the overall picture balance beyond the Backlight Compensation feature. It creates an optimal balance of brightness and color by combining images from a bright area (high shutter speed) and images from a dark area (low shutter speed).





OSD OPERATION

• When the CAMERA SET menu screen is displayed, select ‘WDR’ by using the Up and Down buttons so that the arrow indicates ‘WDR’.
• Use the Left/Right buttons to change the WDR threshold level in the sub menu according to the contrast between bright and dark areas.

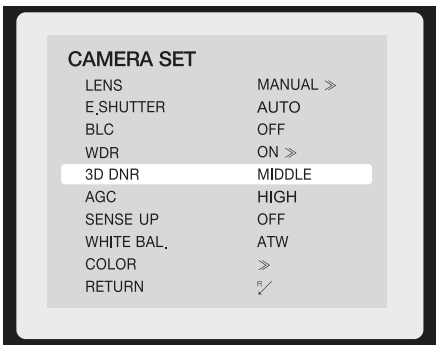


WDR ON

WDR OFF

5. 3D DNR (3D Digital Noise Reduction)

• Improves S/N ratio and a cleaner low illumination quality and can be monitoring at night clearly without the image drag and noise phenomenon.



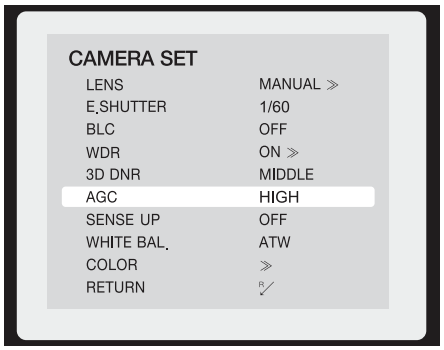
- OFF : 3D DNR function does not operate.
- LOW / MIDDLE / HIGH
  : You can select ‘LOW’ , ‘MIDDLE’ or ‘HIGH’ menu as DNR condition.

NOTE

• When adjusting the noise reduction level in the 3D DNR mode, remember that the higher the level set, the more the noise level will be reduced, but afterimage (ghost effect) may occur.

6. AGC (Auto Gain Control)

• The higher the gain level, the brighter the screen - but the higher the noise.

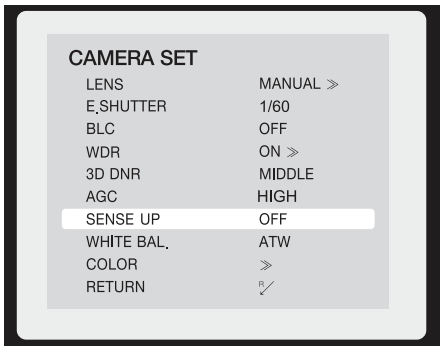


- OFF : Deactivates the AGC function.
- LOW : Allows automatic gain control from 6dB to 18dB.
- MIDDLE : Allows automatic gain control from 6dB to 24dB.
- HIGH : Allows automatic gain control from 6dB to 37dB.

7. SENS UP

• Sens-up is realized in the most low illumination quality and it provides the image without a noise at the low illumination quality.

• When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated.

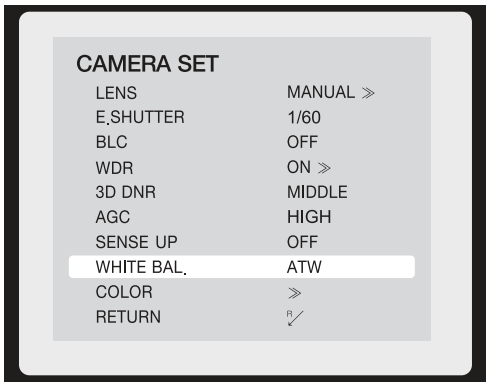


- OFF : Deactivates the SENS-UP function.
- X2 ~ X256 : Activates the SENS-UP function.

OSD OPERATION

8. WHITE BALANCE

- Use the White Balance function to adjust the screen color.
- When the CAMERA SET menu screen is displayed, select 'White Bal.' by using the Up and Down buttons so that the arrow indicates 'White Bal.' .
- Select a desired mode using the Up and Down buttons.



※Select one of the following 4 modes, as appropriate for your purpose.

- AWC : Select this when the color temperature is between 1,700˚K and 11,000˚K.
  * Suggested Specification

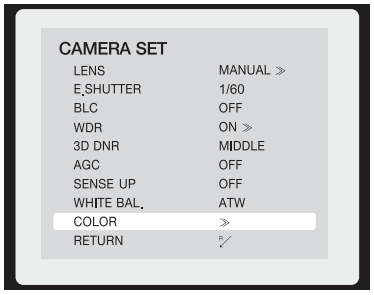
- ATW : The camera automatically controls the white balance in any lighting condition. We recommend using this mode to maintain better lighting quality in the picture.

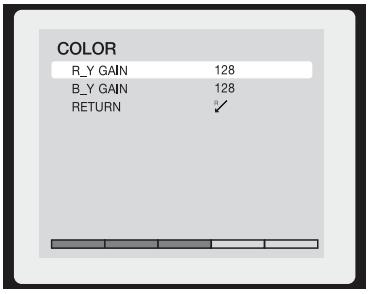
- MANUAL : Select this to fine-tune White Balance manually. Set White Balance first by using the ATW or AWC mode. After that switch to MANUAL mode, fine-tune the White Balance and then press the SET button.

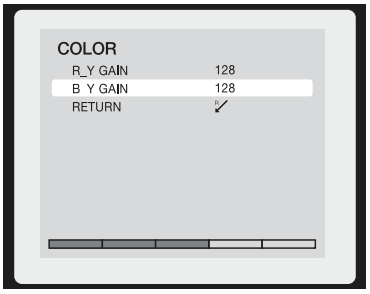
- PUSH : To find the optimal luminance level for the current environment, point the camera towards a sheet of white paper and press the Function Setup switch. If the environment changes, readjust it.

9. COLOR

• When the CAMERA SET menu screen is displayed, select ‘COLOR’ by using the Up and Down buttons so that the arrow indicates ‘COLOR’.







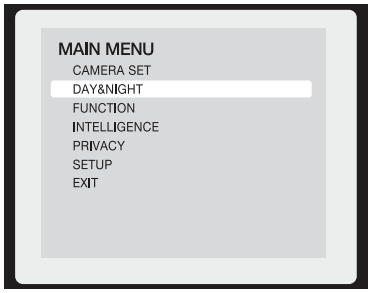
• Select a desired mode using the Up and Down buttons.

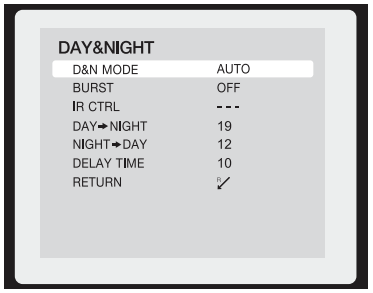
10. RETURN

DAY/NIGHT

You can display pictures in color or black and white.

• When the MAIN MENU is on the screen, please position the cursor to ‘DAY/NIGHT’ by using the joystick. And then press the joystick.





• Select a desired mode using the Left and Right buttons according to the picture display you want.

OSD OPERATION

1. D&N MODE

- AUTO : The mode is switched to 'Color' in a normal environment, but switches to 'B/W' mode when ambient illumination is low. To set up the switching time for AUTO mode, press the SET button. You can turn on or off the burst signal onB/W mode.

- COLOR : The picture is always displayed in color.

- BW : The picture is always displayed in black and white. You can turn on or off the burst signal on B/W mode.

- CDS : Select this when the color is controlled by CDS sensor.

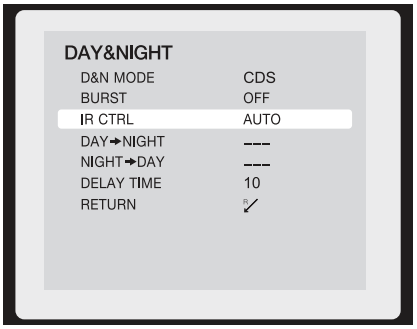
2. BURST

- OFF : You can see clear picture without color noise when BURST function is off.

- ON : When using some monitor or DVR system, color noise can be seen on the screen. In that case you can select the 'BURST' function 'ON'.

3. IR CTRL (optional)

• You can use 'IR CTRL' function when 'D&N MODE' is 'CDS'.

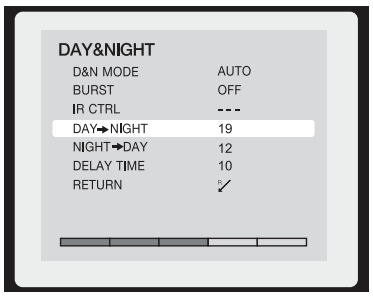


- AUTO : IR LED brightness is controlled by CDS sensor.

- MANUAL : You can adjust brightness of IR LED as night condition.

4. DAY ▶ NIGHT

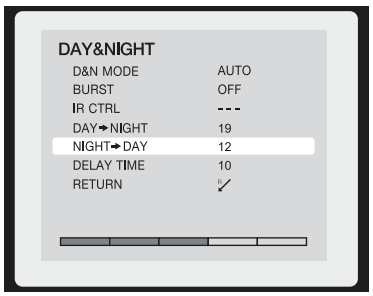
• You can use 'DAY➔NIGHT' function when 'D&N MODE' is 'AUTO'.



• When using 'DAY➔NIGHT' function you can adjust Level of illumination from 130 to 255.

5. NIGHT ➔ DAY

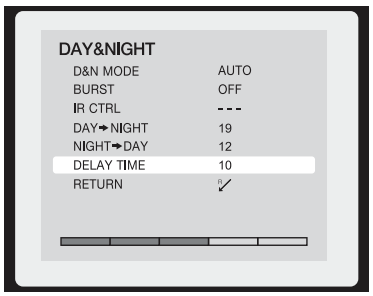
• You can use 'NIGHT➔DAY' function when 'D&N MODE' is 'AUTO'.



• When using 'NIGHT➔DAY' function you can adjust Level of illumination from 0 to 213.

6. DELAY TIME

• You can select the duration time about changing the day/night mode from 1 to 30.



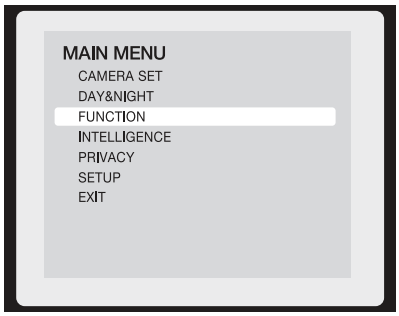
7. RETURN

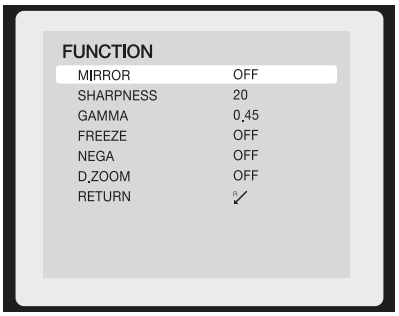
OSD OPERATION

FUNCTION

MIRROR, SHARPNESS, GAMMA, FREEZE, NEGA, D_ZOOM control can be selected.

• When the MAIN MENU is on the screen, please position the cursor to 'FUNCTION' by using the joystick. And then press the joystick.





1. MIRROR

• You can select function by using joystick or LEFT/RIGHT button.

- HORI : You can flip the picture horizontally on the screen.
- VERT : You can flip the picture vertically on the screen.
- ROTATE (H/V FLIP) : You can flip the picture vertically and horizontally on the screen.

2. SHARPNESS

• As you increase this value, the picture outline becomes stronger and clearer. Adjust this value apropriately depending on the sharpness of the picture.

3. GAMMA

• It can be adjusted by GAMMA mode for the brightness of image on the screen.

- The available range of level is 0.45, 0.6, 1. (default 0.45)

4. FREEZE

• When using 'FREEZE' function on, you can stop the picture on the screen.

5. NEGA

• When using 'NEGA' function on, you can see the negative picture on the screen.

6. D-ZOOM

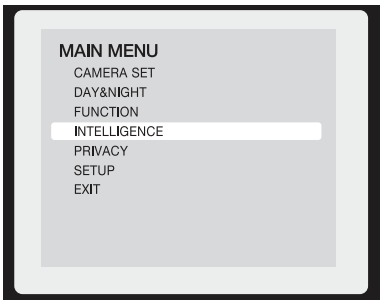
• You can use a digital zoom of x1 ~ x10

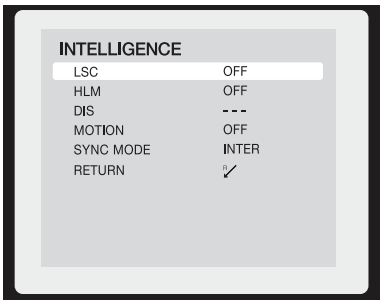
7. RETURN

INTELLIGENCE

LSC, HLM, DIS, MOTION, SYNC MODE control can be selected.

• When the MAIN MENU is on the screen, please position the cursor to 'INTELLIGENCE' by using the joystick. And then press the joystick.





1. LSC (Lens shading compensation)

• When using wide angle lens, you can compensate darkness of corner on the screen.

2. HLM (High Light Mask)

• HLM (High Light Mask) function is being prevented against headlights of vehicle effectively. It is the most suitable function to see license plates at night.

- ON : Adjust level of the HLM function from 0 to 60.

3. DIS (Digital Image Stabilizer)

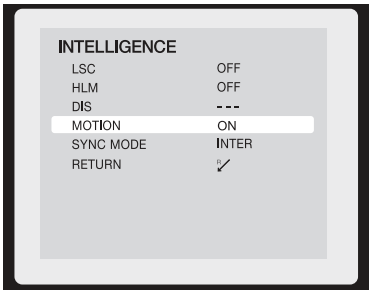
• This function mitigates any picture movement due to external factors such as wind.

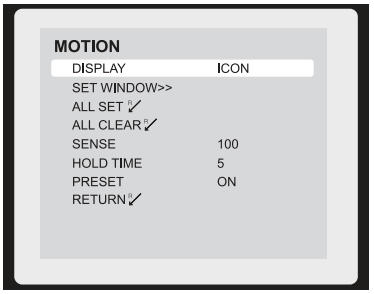
OSD OPERATION

NOTE
• When WDR function is ON, DIS function does not work.

4. MOTION

• This product has a feature that allows you to observe movement of objects in 240 different cell on the screen, and the letter ‘M’ appear on the screen when movement is detected. you can monitor activity more efficient.





- DISPLAY : When this function is ‘ICON’, The letter ‘M’ is appeared on the screen, when motion is occurred in the screen.
- SET WINDOW : You can select motion area in 240 cell. When you select out of cell, the mode is quit.
- ALL SET : You can select all cell
- ALL CLEAR : Erase all cell
- SENSE : When SENSE number from 0 to 120 is high, motion detection sensitivity is increased to recognize even small movement.
- HOLD TIME : When ‘ICON’ is selected, it is time for display ‘M’.
- PRESET : This function is for pan focus lens model.
- RETURN

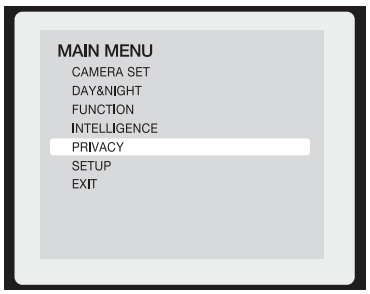
5. SYNC MODE (Optional)

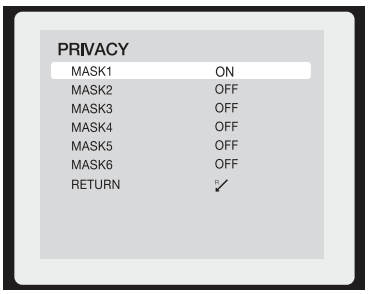
• In areas where the supply is at 60Hz, you can synchronize the output phase of multiple cameras using the power synchronization function (Line-Lock) without using a synchronization signal generator.

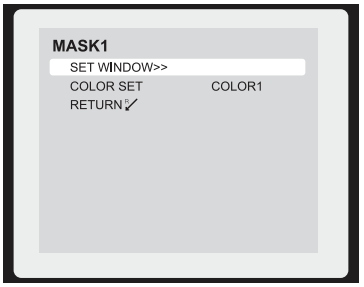
- INT : Internal Synchronization Type
- V-PHASE : You can select a desired phase from 0 to 199 when select 'phase'.

PRIVACY

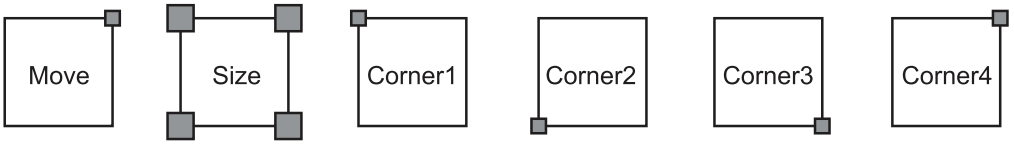
Mask an area you want to hide on the screen.







- SET WINDOW : You can adjust as below picture.

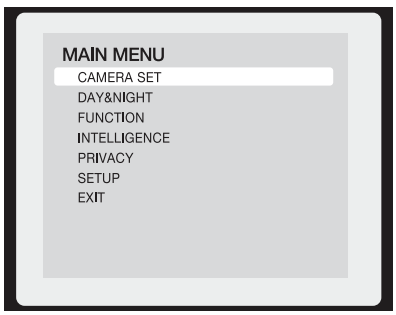


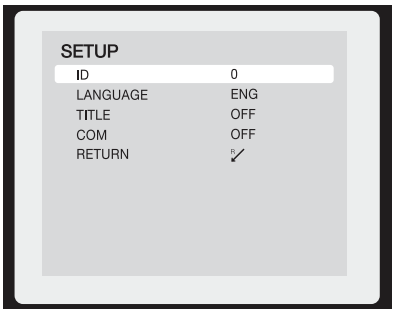
※Setup button is next step. And Up, Down, Left, Right button can control window.

- COLOR SET : You can select window color.

SETUP

ID, ID DISPLAY, LANGUAGE, TITLE, COM control can be selected.





OSD OPERATION

1. ID

• You can select a camera ID from 0 to 254 when using the optional remote control. (call for details)

2. ID DISPLAY

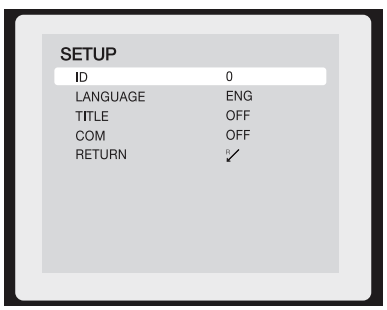
• You can select ON or OFF

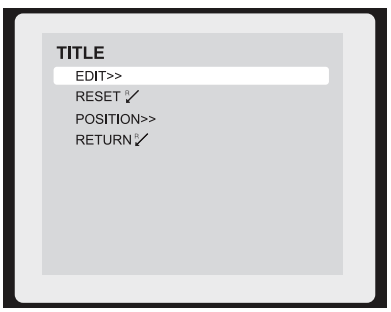
3. LANGUAGE

• You can select language. (Default is ENG)

4. TITLE

• If you enter a title, the title will appear on the monitor.





- EDIT : Use the 5 direction buttons to move to a desired letter and select the letter by pressing the SET button. Repeat this to enter multiple letters. You can enter up to 16 letters.
- RESET : CLEAR TITLE
- POSITION : You can move title by using Up, Down, Left, Right buttons .
- RETURN

5. COM

• Enables the camera communication status when controlling the camera over RS-485 with the optional remote control. (call for details)

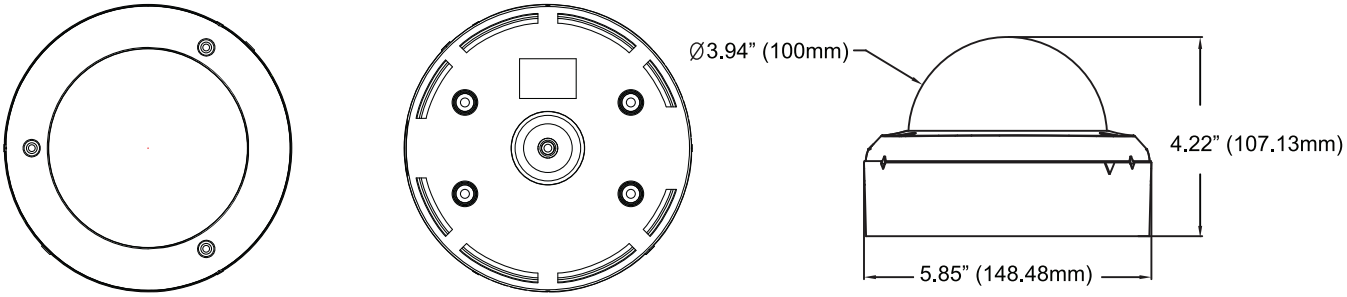
- BAUDRATE : You can select 2400 / 4800 / 9600 / 14400 / 19200 / 38400 bps.

EXIT

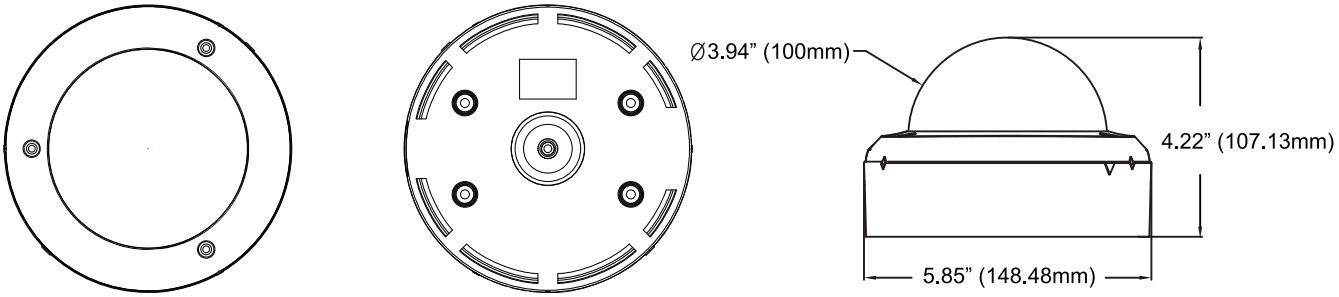
• SAVE & EXIT
• EXIT
• FACTORY SET
• RETURN

DIMENSIONS

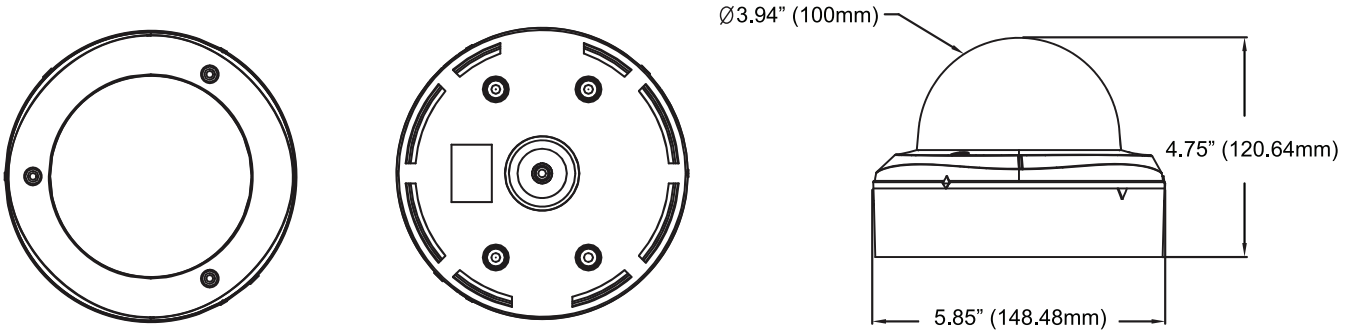
VTD-A4F/V



VTD-A2812/V



VTD-AR2812/V



SPECIFICATIONS

VTD-AF4/V

Image Device	1/3" Sony SuperHAD II CCD
Resolution	620 TV Lines
Min. Illumination	0.1 Lux at F1.2 (Color) / 0.0001 Lux (Sense up x256)
Effective Pixels	811 (H) x 508 (V) 410K pixels
S/N Ratio	More Than 52dB (AGC Off)
Shutter	AUTO / MANUAL (1/60sec~1/100,000sec)
White Balance	ATW / AWC / PUSH / MANUAL (Adjustable)
Standard Lens	3.6mm Fixed Lens
Video Output	CVBS: 1.0Vp-p / 75ohm
IP Rating	IP68
Power Source	Dual Voltage 12VDC/24VAC Operation
Operation Temp	14°F~122°F (-10°C~50°C) at 30%~80% RH
Dimensions	5.85" x 4.22" (148.48mm x 107.13mm)
Weight	2.19lbs (997g)

SPECIFICATIONS

VTD-A2812/V

Image Device	1/3" Sony SuperHAD II CCD
Resolution	620 TV Lines
Min. Illumination	0.1 Lux at F1.2 (color) / 0.0001Lux (Sense up x256)
Effective Pixels	811(H) x 508(V) 410K pixels
S/N Ratio	More Than 52dB (AGC Off)
Shutter	AUTO / MANUAL (1/60sec ~ 1/100,000sec)
White Balance	ATW / AWC / PUSH / MANUAL (Adjustable)
Standard Lens	2.8-12mm DC Auto Iris Lens
Video Output	CVBS: 1.0Vp-p / 75ohm
IP Rating	IP68
Power Source	Dual Voltage 12VDC/24VAC Operation
Environmental	14°F~122°F (-10°C~50°C) at 30%~80% RH
Dimensions	5.85" x 4.22" (148.48mm x 107.13mm)
Weight	2.19lb (997g)

SPECIFICATIONS

VTD-AR2812/V

Image Device	1/3" Sony SuperHAD II CCD
Resolution	620 TV Lines
IR LEDs	35 LEDs at 850nm
Min. Illumination	0 Lux (IR ON)
Effective Pixels	811(H) x 508(V) 410K pixels
S/N Ratio	More Than 52dB (AGC Off)
Shutter	AUTO / MANUAL (1/60sec ~ 1/100,000sec)
White Balance	ATW / AWC / PUSH / MANUAL (Adjustable)
Standard Lens	2.8-12mm IR Corrected DC Auto Iris Lens
Video Output	CVBS: 1.0Vp-p / 75ohm
Power Source	Dual Voltage 12VDC/24VAC Operation
Environmental	14°F~122°F (-10°C~50°C) at 30%~80% RH
Dimensions	5.85" x 4.75" (148.48mm x 120.64mm)
Weight	2.44lb (1106.77g)

VTM-LCDP Series

15”, 17“, and 19” Professional LCD Monitors with Looping BNC Inputs

- 15”, 17“, and 19” Professional LCD Display Panels
- Designed for continuous 24/7 operation
- VGA, Looping BNC Composite, and S-Video Video Inputs. DVI & HDMI Inputs on 17“ & 19” Versions
- Resolution up to 1280 X 1024 (17” & 19”)
- Stereo Audio Input/Output
- VESA Standard Mounting

VT-H Series

4, 8, and 16 Channel Digital Video Recorders with H.264 Compression

The Alpha Series VT-H Series Digital Recorders combine the latest H.264 Compression technology with stability and simple operation. H.264 Compression is the next generation of MPEG4 allowing up to 50% smaller file sizes for increased storage capability and/or resolution as well as a more fluid internet transmission speed. VT-H Series DVRs can be controlled via supplied IR Remote control or remote client.

H.264

- 4, 8, or 16 Video Inputs with 1 BNC & 1 VGA Output
- H.264 Compression
- Supports both Dynamic and Static IP Addresses
- Up to 120 IPS Recording / Live Display
- Remote Viewing over the Internet or LAN
- Supports one internal SATA Hard Drive
- 250GB to 1TB Internal Storage Options
- Quadplex operation enabling simultaneous recording, playback, networking, and backup

NOTES

NOTES

NOTES

VITEK LIMITED PRODUCT WARRANTY

VITEK products carry a three (3) year limited warranty. VITEK warrants to the purchaser that products manufactured by VITEK are free of any rightful claim of infringement or the like, and when used in the manner intended, will be free of defects in materials and workmanship for a period of three (3) years, or as otherwise stated above, from the date of purchase by the end user. This warranty is non-transferable and extends only to the original buyer or end user customer of a Vitek Authorized Reseller.

The product must have been used only for its intended purpose, and not been subjected to damage by misuse, willful or accidental damage, caused by excessive voltage or lightning.

The product must not have been tampered with in any way or the guarantee will be considered null and void.

This guarantee does not affect your statutory rights.

Contact your local VITEK Reseller should servicing become necessary.

VITEK makes no warranty or guarantee whatsoever with respect to products sold or purchased through unauthorized sales channels. Warranty support is available only if product is purchased through a VITEK Authorized Reseller.

VITEK®
INDUSTRIAL VIDEO PRODUCTS, INC.

28492 CONSTELLATION ROAD VALENCIA, CA 91355
WWW.VITEKCCTV.COM | 888-VITEK-70